

# Converting Colors

XYZ(24.8889, 39.4734, 16.6361)

Have a look what the booklet for  
XYZ(24.8889, 39.4734, 16.6361)  
contains.

<b>XYZ(24.9973, 39.6723, 16.6960)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(24.9973, 39.6723,  
16.6960)**

# Conversions

## Conversions Part 1

Format	Color
Hex	60BD5D
RGB	96, 189, 93
RGB Percent	38%, 74%, 36%
CMY	0.6235, 0.2588, 0.6353
CMYK	0.49, 0.00, 0.51, 0.26
HSL	118°, 42%, 55%
HSV	118°, 51%, 74%
XYZ	24.9973, 39.6723, 16.6960
YIQ	150.2490, -24.6120, -49.5720

# Conversions

## Conversions Part 2

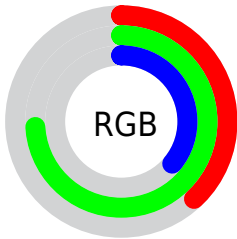
Format	Color
<a href="#">RYB</a>	<a href="#">93, 189, 186</a>
Decimal	<a href="#">6339933</a>
CIELab	<a href="#">69.24, -47.05, 39.91</a>
CIElCh	<a href="#">69, 61.694, 139.692</a>
Yxy	<a href="#">39.6723, 0.3072, 0.4876</a>
Android (android.graphics.Color)	<a href="#">4284530013 (0xFF60BD5D)</a>
YUV	<a href="#">150.2490, -28.2238, -47.5764</a>
Hunter-Lab	<a href="#">62.9860, -39.3839, 28.3739</a>

# Details

The XYZ color **24.9973, 39.6723, 16.6960** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **33.3513, 21.9432, 50.6238**, and the grayscale version is **29.2198, 30.7415, 33.4775**.

A 20% lighter version of the original color is **51.0155, 74.6313, 38.5045**, and **9.7932, 17.8597, 5.2166** is the 20% darker color. If you saturate the color by 10%, you get **22.5545, 38.4992, 12.7390**, and if you desaturate by 10%, it is **28.0976, 41.1628, 21.7653**.

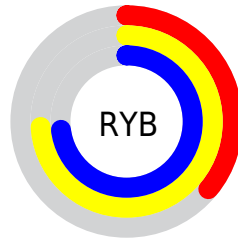
# Distribution



Red (38%)

Green (74%)

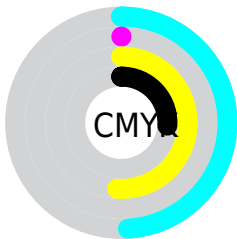
Blue (36%)



Red (36%)

Yellow (74%)

Blue (73%)

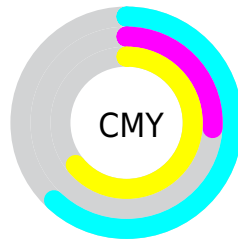


Cyan (49%)

Magenta (0%)

Yellow (51%)

Black (26%)



Cyan (62%)

Magenta (26%)

Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.9973, 39.6723, 16.6960 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 24.9973, 39.6723, 16.6960 by changing the saturation by 10% instead.



■ 24.9973, 39.6723,  
16.6960

■ 24.9973, 39.6723,  
16.6960

270.1724,  
344.7404, 245.3987

■ 16.2038, 27.2831,  
9.8583

■ 51.0958, 74.6642,  
38.5858

■ 9.7602, 17.7860,  
5.2007

■ 69.1314, 98.0358,  
54.4750

■ 5.3013, 10.7964,  
2.3047

■ 90.9785, 125.8370,  
74.2185

■ 2.4617, 5.9301,  
0.7339

■ 117.0023,  
158.4521, 98.2348

■ 0.8760, 2.8026,  
0.0000

147.5682,  
196.2656, 126.9424

■ 0.0000, 1.0296,  
0.0000

183.0417,

■ 0.0000, 0.0000,

239.6619, 160.7599

0.0000

223.7879,  
289.0254, 200.1058

■ 24.9973, 39.6723,  
16.6960

■ 24.9973, 39.6723,  
16.6960

■ 22.5545, 38.4992,  
12.7390

■ 28.0976, 41.1628,  
21.7653

■ 20.7191, 37.6160,  
9.8085

■ 31.8950, 42.9859,  
28.0191

■ 19.4387, 36.9988,  
7.8103

■ 36.4293, 45.1620,  
35.5264

■ 18.6506, 36.6178,  
6.6319

■ 41.7367, 47.7082,  
44.3505

■ 18.2723, 36.4348,  
6.0696

■ 47.8509, 50.6407,  
54.5501

■ 54.8034, 53.9747,  
66.1805

■ 62.6244, 57.7244,  
79.2940

■ 71.3423, 61.9035,  
93.9403

■ 77.4884, 64.8767,  
103.0461

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



31.6617, 39.6723, 9.5536



24.9973, 39.6723, 16.6960



21.9358, 39.6723, 34.1749

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



24.9973, 39.6723, 16.6960



34.4095, 39.6723, 121.8718



58.5688, 39.6723, 27.3354

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



24.9973, 39.6723, 16.6960



33.3513, 21.9432, 50.6238

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



59.6543, 39.6723, 53.6803



24.9973, 39.6723, 16.6960



44.4774, 39.6723, 117.3296

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



24.9973, 39.6723, 16.6960



26.7057, 39.6723, 99.3814



54.1273, 39.6723, 88.8111



51.3787, 39.6723, 13.5741

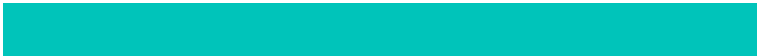


# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



24.9973, 39.6723, 16.6960



21.9111, 39.6723, 53.0181



54.1273, 39.6723, 88.8111



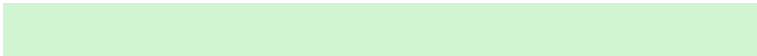
59.7024, 39.6723, 34.6694

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



24.9983, 39.6740, 16.6969



70.3457, 83.3303, 72.1029



40.4806, 46.6447, 17.2264



14.7000, 17.7147, 14.7947



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



24.9983, 39.6740, 16.6969



39.9496, 68.7358, 22.1011



27.2861, 40.5533, 30.3596



9.4356, 10.6634, 10.1376



12.3057, 24.5197, 4.0842



0.4916, 0.9654, 0.1604



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



33.3513, 21.9432, 50.6238



56.5672, 33.3992, 89.6915



29.9514, 20.6683, 28.8779



9.8997, 9.6807, 12.0190



19.3477, 9.2602, 33.1606



0.7672, 0.3675, 1.2994



# Previews

## White Background



This preview shows how the XYZ color 24.9973, 39.6723, 16.6960 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 24.9973, 39.6723, 16.6960 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 24.9973, 39.6723, 16.6960**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.9973, 39.6723, 16.6960.



This preview shows how white text looks on a background with the XYZ color 24.9973, 39.6723,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

24.9973, 39.6723, 16.6960

### Protanopia

35.6899, 38.9914, 14.4491

### Deuteranopia

39.7729, 38.8991, 17.4686



## Tritanopia

32.7709, 39.4285, 55.7524

# Trichromacy



## Original Color

24.9973, 39.6723, 16.6960



## Protanomaly

30.4654, 38.5442, 15.2853



## Deuteranomaly

32.2376, 37.9882, 16.9426



## Tritanomaly

29.0354, 39.1074, 37.4706

# Monochromacy



## Original Color

24.9973, 39.6723, 16.6960



## Achromatopsia

28.9890, 30.4987, 33.2131



## Achromatomaly

26.4438, 32.8817, 25.7219

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.9973, 39.6723, 16.6960 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(96, 189, 93)` looks like.

```
.text, #text, p{  
    color:rgb(96, 189, 93)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(96, 189, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 189, 93) }
```

## Border

The CSS property to change the border of an element to XYZ 24.9973, 39.6723, 16.6960 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(96, 189, 93) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(96, 189, 93) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(96, 189, 93) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 189, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 189, 93);  
box-shadow:4px 4px 4px 4px rgb(96, 189,  
93) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.9973, 39.6723, 16.6960 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 189, 93) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(96, 189,  
93) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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